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38834 7599 9871972919 WESTERMAN, HATTORI, DANIELS & ADRIAN, LLP 1250 CONNECTICUT AVENUE, NW			EXAMINER	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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Application No. Applicant(s) 10/581,268 EADIE ET AL. Office Action Summary Examiner Art Unit SAN AUNG 3657 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 24 March 2010. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 27-42 is/are pending in the application. 4a) Of the above claim(s) _____ is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 27-42 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.

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DETAILED ACTION

This communication is a Third Office Action Non-Final rejection on the merits.

Claims 27-42, as originally filed, are currently pending and have been considered below.

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on March 24, 2010 has been entered.

Response to Amendment

The amendment filed March 24, 2010 has been entered. Claims 27 and 42 have been amended. Therefore, claims 27-42 are now pending in the application.

Claim Rejections - 35 USC § 103

- The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- Claims 27, 33-42 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kumar et al. (US Patent 5,477,941), and further in view of Clyne K. M. et al. (WO-0118558 A1, from IDS) and Gray (US Pub. No.: 2002/0072833 A1).

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As per claim 27, Kumar discloses On-Board Lubrication System for Direct Application to Curve and Tangent Railroad Track comprising:

an applicator (14) for application of the liquid composition (Figure 3); and a processing device for receiving the topological information, and controlling the application of the liquid composition, wherein control of the application of the liquid composition is based on the topological information received by the processing device (Column 5, Lines 1-11)

However, Kumar fails to explicitly disclose that,

a topological device comprising a global position system (GPS) for acquiring topological information of a rail system in real-time; and

the processing device is accessed remotely at a site separate from a train consist in the rail system.

Clyne discloses Method and Apparatus for Measuring Navigational Parameter of a Locomotive comprising:

a topological device comprising a global position system (GPS) for acquiring topological information of a rail system in real-time (Page 6, Line 24-page 7, line 8).

However, Kumar and Clyne both silent about the processing device is accessed remotely at a site separate from a train consist in the rail system.

Gray discloses Track Database Integrity Monitor for Enhanced Railroad Safety Distributed Power comprising:

the processing device is accessed remotely at a site separate from a train consist in the rail system (Gray disclosed that remote monitoring facility 31 and position-

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determining device 28, paragraph 21, and also disclose that present invention also discloses a method for remotely controlling a locomotive, paragraph 11).

It would have been obvious to one ordinary skill in the art at the time the invention was made to modify the railroad lubricating system of the Kumar to include the a topological device comprising a global position system (GPS) for acquiring topological information of a rail system in real-time as taught by Clyne in order to provide an accurate heading and advantageously be use to reduce usage of lubricant applied to the rail and also to use processing device is accessed remotely at a site separate from a train consist in the rail system as taught by Gray in order to provide an enhanced railroad safety and control the application of the lubricant any remote region efficiency and can stop immediately in case of emergency and quickly and reliable meet the need for a track database integrity monitor as part of an enhance railroad lubrication.

As per claim 33, Kumar discloses the processing device comprises a database having topological information of the rail system (Column 5, Lines 1-7).

However,, Kumar fails to explicitly disclose that the processing device coordinates the topological information acquired from the GPS with the topological information of the database for controlling the application of the liquid composition.

Clyne discloses the processing device coordinates the topological information acquired from the GPS with the topological information of the database for controlling the application of the liquid composition (Page 6, Line 24- page 7, line 9, and page 9, lines 5-8).

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It would have been obvious to one ordinary skill in the art at the time the invention was made to modify the railroad lubricating system of the Kumar to include the processing device coordinates the topological information acquired from the GPS with the topological information of the database for controlling the application of the liquid composition as taught by Clyne in order to provide an accurate heading and advantageously be use to reduce usage of lubricant applied to the rail.

As per claim 34, Kumar discloses the processing device comprises one or more than one electronic component selected from the group consisting of a microprocessor, a programmable logic controller, a computer, and a combination thereof (Column 5, Lines 1-7, and Figure 5).

As per claim 35, Kumar discloses the one or more than one electronic component has an operator-actuated interface (Column 6, Lines 15-22).

As per claim 36, Kumar discloses all the structural elements of the claimed invention but fails to explicitly disclose the topological information received by the processing device for controlling the application of the liquid composition is selected from the group consisting of orientation of the rail car in the rail system, speed of the rail car, curve sensing, changes in elevation, and a combination thereof.

Clyne discloses the topological information received by the processing device for controlling the application of the liquid composition is selected from the group consisting of orientation of the rail car in the rail system, speed of the rail car, curve sensing, changes in elevation, and a combination thereof (Page 6, line 24- page 7, Line 8, and page 9, lines 5-8).

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It would have been obvious to one ordinary skill in the art at the time the invention was made to modify the railroad lubricating system of the Kumar to include the topological information received by the processing device for controlling the application of the liquid composition is selected from the group consisting of orientation of the rail car in the rail system, speed of the rail car, curve sensing, changes in elevation, and a combination as taught by Clyne in order to provide an accurate heading and advantageously be use to reduce usage of lubricant applied to the rail.

As per claim 37, Kumar discloses all the structural elements of the claimed invention but fails to explicitly disclose the topological information acquired by the GPS and received by the processing device is selected from the group consisting of latitude, longitude, speed, heading, altitude, and a combination thereof.

Clyne discloses the topological information acquired by the GPS and received by the processing device is selected from the group consisting of latitude, longitude, speed, heading, altitude, and a combination thereof (Page 6, line 26-page 7, line 4).

It would have been obvious to one ordinary skill in the art at the time the invention was made to modify the railroad lubricating system of the Kumar to include the topological information acquired by the GPS and received by the processing device is selected from the group consisting of latitude, longitude, speed, heading, altitude, and a combination as taught by Clyne in order to provide an accurate heading and advantageously be use to reduce usage of lubricant applied to the rail.

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As per claim 38, Kumar discloses the GPS provides the processing device with topological information regarding speed of the rail car in the rail system to control a rate of application of the liquid composition (Column 5, Lines 38-42).

However, Kumar fails to explicitly disclose that GPS provides the topological information.

Clyne discloses a topological device comprising a global position system (GPS) for acquiring topology information of a rail system in real-time (Page 6, line 24- page 7, line 8).

It would have been obvious to one ordinary skill in the art at the time the invention was made to modify the railroad lubricating system of the Kumar to include the topological device and which comprising a global position system (GPS) for acquiring topological information of a rail system in real-time as taught by Clyne in order to provide an accurate heading and advantageously be use to reduce usage of lubricant applied to the rail.

As per claim 39, Kumar discloses, provides the processing device with topological information regarding changes in position of the rail car in the rail system to determine whether or not the rail car is negotiating a curved portion of a rail track in the rail system and the processing device controls application of the liquid composition accordingly (Column 5, Lines 38-42).

However, Kumar fails to explicitly disclose that GPS provides the topological information.

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Clyne discloses a topological device comprising a global position system (GPS) for acquiring topological information of a rail system in real-time (Page 6, line 24-page 7, line 8).

It would have been obvious to one ordinary skill in the art at the time the invention was made to modify the railroad lubricating system of the Kumar to include the topological device and which comprising a global position system (GPS) for acquiring topological information of a rail system in real-time as taught by Clyne in order to provide an accurate heading and advantageously be use to reduce usage of lubricant applied to the rail.

As per claim 40, Kumar as modified by Clyne discloses all the structural elements of the claimed invention but fails to explicitly disclose the GPS provides the processing device with topological information regarding changes in elevation of the rail car in the rail system to determine whether or not the rail car is negotiating an inclining or declining segment of a rail track in the rail system and the processing device controls application of the liquid composition accordingly.

Gray discloses the GPS provides the processing device with topological information regarding changes in elevation of the rail car in the rail system to determine whether or not the rail car is negotiating an inclining or declining segment of a rail track in the rail system and the processing device controls application of the liquid composition accordingly (Paragraph 26).

It would have been obvious to one ordinary skill in the art at the time the invention was made to modify the railroad lubricating system of the Kumar as modified

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by Clyne to include the topological information regarding changes in elevation of the rail car in the rail system to determine whether or not the rail car is negotiating an inclining or declining segment of a rail track in the rail system and the processing device controls application of the liquid composition accordingly as taught by Gray in order to provide quickly and reliable meet the need for a track database integrity monitor as part of an enhance railroad lubrication.

As per claim 41, Kumar discloses a method of applying a liquid composition in a rail system using the liquid composition application system of claim 27 (Column 5, Lines 1-61).

As per claim 42, Kumar discloses On-Board Lubricating System for Direct Application to Curve and Tangent Railroad Track comprising:

providing the liquid composition application system of (Figure 5); and

wherein control of the application of the liquid composition is base on the
topological information received by the processing device (Column 5, Lines 1-11).

However, Kumar fails to explicitly disclose that:

acquiring topological information of the rail system in real-time using the GPS; processing the topological information remotely at a site separate from the train consist in the rail system and controlling application of the liquid composition using the processing device.

Clyne discloses acquiring topological information of the rail system in real-time using the GPS (Page 6, Line 24 – page 7, line 9, and page 9, line 5-8).

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However, Kumar and Clyne both silent about processing the topological information at a site separate from the train consist in the rail system and controlling application of the liquid composition using the processing device,

Gray discloses the processing device is accessed remotely at a site separate from a train consist in the rail system (Gray disclosed that remote monitoring facility 31 and position-determining device 28, paragraph 21, and also disclose that present invention also discloses a method for remotely controlling a locomotive, paragraph 11).

It would have been obvious to one ordinary skill in the art at the time the invention was made to modify the railroad lubricating system of the Kumar to include the topological device and which comprising a global position system (GPS) for acquiring topological information of a rail system in real-time as taught by Clyne in order to provide an accurate heading and advantageously be use to reduce usage of lubricant applied to the rail and also to use processing device is accessed remotely at a site separate from a train consist in the rail system as taught by Gray in order to provide an enhanced railroad safety and control the application of the lubricant any remote region efficiency and can stop immediately in case of emergency and quickly and reliable meet the need for a track database integrity monitor as part of an enhance railroad lubrication.

4. Claims 28-31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kumar et al. (US Patent 5,477,941) as modified by Clyne K. M. et al. (WO_0118558 A1, from IDS) and Gray (US Pub. No.: 2002/0072833 A1) as applied to claim 27 above, and further in view of Kast et al. (US Patent 6,578,669 B2).

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As per claim 28, Kumar discloses:

one or more than one reservoir for holding the liquid composition (50, 51, Figure 5);

a pipe connected to the one or more than one reservoir (13, Figure 5); one or more than one dispensing nozzle (17, 18, Figure 5).

However, Kumar fails to explicitly disclose a pump, in fluid communication with the pipe, for moving the liquid composition from the one or more than one reservoir to the one or more than one dispensing nozzle.

Kast discloses Rail Lubrication System comprising:

a pump (38, 64), in fluid communication with the pipe, for moving the liquid composition from the one or more than one reservoir to the one or more than one dispensing nozzle (Figure 2).

It would have been obvious to one ordinary skill in the art at the time the invention was made to modify the railroad lubricating system of the Kumar as modified by Clyne and Gray to include the pump, in fluid communication with the pipe, for moving the liquid composition from the one or more than one reservoir to the one or more than one dispensing nozzle as taught by Kast in order to provide continuously supply of a lubricant along the lubricant path and can apply relatively thick rail lubricant to the rail.

As per claim 29, Kumar as modified by Clyne and Gray discloses all the structural elements of the claimed invention but fails to explicitly disclose the processing device comprises a controller for controlling operation of the pump.

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Kast discloses the processing device comprises a controller for controlling operation of the pump (by means of controlling electric motor, Figure 2).

It would have been obvious to one ordinary skill in the art at the time the invention was made to modify the railroad lubricating system of the Kumar as modified by Clyne and Gray to include the pump and the processing device comprises a controller for controlling operation of the pump as taught by Kast in order to control the application of the lubricant efficiently and provide continuously supply of a lubricant along the lubricant path and can apply relatively thick rail lubricant to the rail.

As per claim 30, Kumar discloses the controller is selected from the group consisting of a programmable logic controller, a microprocessor and a computer (Column 5, Lines 1-7, and Figure 5).

As per claim 31, Kumar as modified by Clyne and Gray discloses all the structural elements of the claimed invention but fails to explicitly disclose the processing device comprises a metering device for controlling operation of the pump.

Kast discloses the processing device comprises a metering device for controlling operation of the pump (60, Column 4, Lines 60-67, and Figure 2).

It would have been obvious to one ordinary skill in the art at the time the invention was made to modify the railroad lubricating system of the Kumar as modified by Clyne and Gray to include the metering device for controlling operation of the pump as taught by Kast in order to control the necessary lubricant amount effectively.

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As per claim 32, Kumar discloses a source of pressurized air connected to the one or more than one dispensing nozzle to dispense the liquid composition as an atomized spray (Column 6, Lines 23-26).

 Claim 40 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kumar et al. (US Patent 5,477,941) as modified by Clyne K. M. et al. (WO-0118558 A1, from IDS) and Gray (US Pub. No.: 2002/0072833 A1) as applied to claim 27 above, and further in view of Gray (US Patent 6,434,452 B1).

Response to Arguments

 Applicant's arguments with respect to claims 27, 33-39, and 41-42 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

 The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to SAN AUNG whose telephone number is (571)270-5792. The examiner can normally be reached on Mon-to- Fri 7:30 am- to 5:00 pm..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Siconolfi can be reached on 571-272-7124. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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/SAN AUNG/ Examiner, Art Unit 3657 /Robert A. Siconolfi/ Supervisory Patent Examiner, Art Unit 3657